

In the Claims

This listing of claims will replace all prior versions, and listings, of claims.

Listing of Claims

1. – 11. (Canceled).

12. (Original) A plasma display panel (PDP), comprising:

a front substrate; and

a rear substrate, wherein at least one set of alignment marks is installed on the front and rear substrates, the set of alignment marks comprise a first and second patterns installed on the predetermined assembling position of the first and second substrate respectively, the second pattern comprises at least a hexagonal honeycomb pattern formed with rib barriers, a line segment of the first pattern is parallel to at least one side of the hexagonal honeycomb pattern with a predetermined distance therebetween, and the first and second patterns are used to align between the front and rear substrates, when assembling a PDP.

13. (Original) The plasma display panel as claimed in claim 12, wherein the first pattern comprises a plurality of parallel line segments.

14. (Original) The plasma display panel as claimed in claim 12, wherein the first pattern comprises a V-shaped line segment, and the angle thereof is the same as the angle of the hexagonal honeycomb pattern of the second pattern, when alignment is performed, the angle of the V-shaped pattern is aligned with the corner of the hexagonal honeycomb pattern, thus these two pattern profiles are parallel with each other with a predetermined distance therebetween.

15. (Original) The plasma display panel as claimed in claim 12, wherein the first pattern comprises a hexagonal star-column pattern with the same center, the tip portion thereof is V-shaped, and each angle of the six columns corresponds to the six corners of the hexagonal honeycomb pattern of the second pattern respectively, when alignment is performed, six angles of the second pattern are aligned with the six corners of the first pattern respectively, and two pattern profiles are parallel to each other with a predetermined distance therebetween.

16. (Original) The plasma display panel as claimed in claim 12, wherein the first pattern comprises a T-shaped pattern comprising a horn column and a rectangle, and the angle of the horn column is the same as the angle of the hexagonal honeycomb pattern of the second pattern, when alignment is performed, the horn column is aligned with the corner of the hexagonal honeycomb pattern of the second pattern, and two pattern profiles are parallel to each other with a predetermined distance therebetween.

17. (Original) The plasma display panel as claimed in claim 12, wherein the first pattern comprises a first and a second T-shaped pattern comprising a first and a second horn column and a first and a second rectangle respectively, the first and second rectangles are parallel with each other, and the angles of the first and second horn columns are the same as the opposite angles of the hexagonal honeycomb pattern of the second pattern respectively, when alignment is performed, the first and second horn columns are aligned with the opposite corners of the hexagonal honeycomb pattern of the second pattern, and two pattern profiles are parallel to each other with a predetermined distance therebetween.

18. (Original) The plasma display panel as claimed in claim 12, wherein the first pattern comprises a T-shaped pattern comprising a horn column and a rectangle, and the angle of the horn column is the same as the angle of the hexagonal honeycomb pattern of the second pattern, when alignment is performed, the horn column is aligned with the corner of the hexagonal honeycomb pattern of the second pattern, and two pattern profiles overlap.

19. (Original) The plasma display panel as claimed in claim 12, wherein the first pattern comprises a first and a second T-shaped pattern comprising a first and a second horn column and a first and a second rectangle respectively, the first and second rectangles are parallel with each other, and the angles of the first and second horn columns are the same as the opposite angles of the hexagonal honeycomb pattern of the second pattern respectively, when alignment is performed, the first and second horn columns are aligned with the opposite corners of the hexagonal honeycomb pattern of the second pattern, and two pattern profiles overlap.

20. (Original) The plasma display panel as claimed in claim 12, wherein the first pattern comprises a pentagon comprising two right angles and three non-right angles, and the three non-right angles are the same as the three corresponding angles of the hexagonal honeycomb pattern of the second pattern respectively, When alignment is performed, the three non-right angles of the first pattern are aligned with the three corresponding corners of the second pattern, and two pattern profiles are parallel therebetween.

21. (Original) The plasma display panel as claimed in claim 12, wherein the first pattern comprises a first and second pentagons comprising two right angles and three non-right angles, and the three non-right angles are the same as the three corresponding angles of the hexagonal honeycomb pattern of the second pattern respectively, when alignment is performed, the three non-right angles of the first pattern are aligned with the three corresponding corners of the second pattern, and two pattern profiles are parallel.

22. (Original) The plasma display panel as claimed in claim 12, wherein the first pattern installed on the front substrate comprises non-transparent bus electrode material or black matrix material.